



Industry Application Report

June 2021



In-Line Power Regulator.

A common form of transmitting electrical currents is through the use of overhead power lines, used to distribute said electrical currents across small or large distances. Electricity pylons vary in size and voltage capacity, usually determined by the required transmission needs. Ranging from low voltage (less than 1000 volts) commonly used in residential areas up to High Voltage (transmission of voltages around 115 - 138 kV) used for the transmission of large quantities.

With electricity pylons requiring a constant voltage level. Bulgin's IP67 sealed Indicators are used on In-Line Power Regulators to identify any faults, reduce downtime, and resolve power shortages quicker.

⬡ Potential Markets: Automotive / Data Centres

⬡ Bulgin's indicator range has developed to meet the many different needs of panel design, including IP67 environmentally sealed versions for use where a front panel seal is needed



Products Related To This Industry:



C1091 FQS Indicator

6.3 x 0.8 QC

IP67 Panel Sealed low voltage MBC (BA9/T-3 1/4 Bayonet) lampholder with Chrome Bezel. Supplied complete with gaskets/O' rings. Operating voltage: 50V maximum. Can be supplied complete with 6V, 12V or 24V lamp (front of panel lamp replacement). Flat Lens. Choice of Lens colour. Insulating terminal cover (F0445MO) available separately. Low voltage MES (E10) version available (C1090FPS Series). 1090 and 1091 Series available without IP67 rating. Mains voltage version (1092 Series) also available.



Vandal Resistant

Ø12.1mm Panel Cut Out

Stainless Steel Vandal Resistant LED Indicators. 15mm diameter. IP67 rated. Choice of profile, depending on part code prefix: DX0505, DX0507: Proud of panel profile. DX0506, DX0508: Flush panel profile Choice of Termination, depending on part code prefix: DX0505, DX0506: 2.8mm Series Tab/Solder Tag. DX0507, DX0508: 150mm Flying Leads. Choice of Illumination colour depending on part code. Choice of LED operating voltage depending on part code suffix. Resistor options available.



Indicator Range

6.3x0.8 QC / 4.8x0.8 QC / 2.8x0.8 Tab

Illumination and operating voltage: Neon: 100V-130V, 200V-250V. LED: 2VDC-2.2VDC, 6VDC, 12VDC, 24VDC, 110VAC-230VAC (other voltages available). Filament: 6V, 12V-14V, 24V-28V. Lens colour: Neon, Filament: Red, Amber, Green, Clear. Blue also available to special order. LED: Red, Yellow, Green, White, Blue.



Square Lens Indicator

6.3x0.8 QC / 4.8x0.8 QC / 2.8x0.8 Tab

Illumination and operating voltage: Neon: 100V-130V, 200V-250V. LED: 2VDC-2.2VDC, 6VDC, 12VDC, 24VDC, 110VAC-230VAC (other working voltages available). Filament: 6V, 12V-14V, 24V-28V. Lens colour: Neon, Filament: Red, Amber, Green, Clear. Blue also available to special order. LED: Red, Yellow, Green, White, Blue.



Boat Lighting.

The marine industry is making ever-increasing use of LED lighting within the manufacturing and design of boats and yachts for visual aesthetic and critical marine navigation. It should come as no surprise that lighting systems are a vital aspect when it comes to modes of marine transportation - as with other modes of transport such as cars and aircraft, lighting systems are a crucial function to aid in safe navigation.

As LED lighting continues to grow in popularity, adoption in the marine industry is increasing. The 6000 Series Buccaneer is used to power LED light sources for boats and yachts

- ⬡ Potential Markets: Fishery / Sailing
- ⬡ The 6000 Series Buccaneer features a 30 degree push twist lock, making it tamperproof whilst also preventing accidental un-mating



Products Related To This Industry:



PXP6010 / PXM6010

6000 Series Buccaneer

Flex Cable Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



PXP6012 / PXM6012

6000 Series Buccaneer

Front Panel Mount Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



PXP6011 / PXM6011

6000 Series Buccaneer

Flex In-Line Cable Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



Sensors.

In its most simplistic definition, a sensor is the given name to any device or machine that detect changes or 'events' in the given environment or location the sensor is set to observe. The captured data / information then can be relayed or sent to other electronic systems such as a computer processor for analysis or use.

Bulgin's sensors come in many different shapes and sizes and can be tailored for various applications. A typical example would be Touch Sensors used for doors or lifts, and complex examples can be found in aerospace, medical and manufacturing industries. Our Bulgin Ethernet Buccaneer Connectors are used for RS-485 communication between a sensor and the display unit.

- ⬡ Potential Markets: Automotive / Industrial Production / Theatre Lighting
- ⬡ 6000 Series Metal Ethernet Connectors are Water & Dustproof to IP66, IP68 & IP69K when mated with a compatible connector



Products Related To This Industry:



PXP6034 / PXM6034

6000 Series Ethernet Buccaneer

Rewireable Flex Cable Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Supplied with shielded RJ45 plug. Choice of cable acceptance depending on part code.



PXP6033 / PXM6033

6000 Series Ethernet Buccaneer

Front Panel Mount Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock. CAT5e shielded coupler - standard RJ45 patchcord can be plugged into rear. Single hole fixing. Supplied with panel sealing gasket. Choice of body material.



PXP6037 / PXP6038

6000 Series Ethernet Buccaneer

Pre-Wired Patch Cord with plastic body overmoulded connector. Water and dustproof to IP66, IP68, IP69K when mated. 30 degree push twist locking, tamperproof lock. Supplied with shielded RJ45 plug. S-FTP cable construction. PUR jacket cable in a choice of lengths depending on part code. 568-B wiring configuration.



Sealing Caps

6000 Series Connectors

Sealing Caps for 6000 Series Power and Data Connectors. Use to maintain IP rating of unmated connectors. PXP6081 fits PXP6010 Power Connectors; PXP6040, PXP6041 Flex USB Connectors; PXP6034, PXP6037, PXP6038 Flex/Patch Cord Ethernet Connectors (push fit). Various other options available.



Chest Freezer.

Chest Freezers come in many shapes and sizes and are tailored to the amount of products needing to be frozen at any one time. The most common uses for Chest Freezers are in supermarkets, as these (present with clear lids) act as top down displays for the produce frozen inside. Chest Freezers can also be used at home with domestic styles for added freezer space.

Chest freezers differ from normal refrigerators / home freezers. They lay flat across the ground with their lid present on the top of the freezer. Combining this function with the fact that cold air is heavier than room temperature / hot air, we have as a result, when the lid of a Chest Freezer is opened, the cold air does not flow out and escape. Bulgin's Lampholders and Switches provide the perfect combination for illuminating Chest Freezers and ensuring they are adequately lit when opened.

- ⬡ Potential Markets: Commercial / Domestic Appliances
- ⬡ Our switch range is designed to meet the design requirements of a wide variety of industry applications
- ⬡ A range of Lampholder products on offer



Products Related To This Industry:



0061 Series

Low voltage LES lampholder

9.5mm Panel Cut Out, 12.7mm Bezel. Operating voltage: 50V maximum. Can be supplied complete with 6V, 12V or 24V LES lamp. Termination: Small Solder Tag. Choice of lens colour: Red, Amber, Green, Clear. Blue also available to special order - contact Sales for details. Rear of panel lamp replacement.



0062 / 0063 Series

Low voltage lampholders

Operating voltage: 50V maximum. Can be supplied complete with 6V, 12V or 24V Midget Flange (0062 Series) lamp or LES (0063 Series) lamp. Termination: Small Solder Tag. Lamp type: Midget Flange (0062 Series), LES (0063 Series). Lens colour: Red, Amber, Green, Clear, Blue (special order - contact sales). Bezel option: Part numbers containing 0062A, 0063A have a Chrome Plated Brass Bezel. IP67 Panel Sealed version available for both Series (supplied complete with gaskets/'O' rings).



3900 Series

Toggle Switches

ENEC, UL, CSA approved (approvals & ratings vary with function & switch body type - see technical data for details). Choice of: Single Pole (3900 Series), Double Pole (3950 Series) Standard or Sealed body (panel seal to IP67) Actuator: 10mm, 17.5mm, 38.1mm Metal Toggle or 17.5mm Flatted Nylon Toggle.



5500 Series

Rocker Switches

Range of Single Pole Rocker Switches. Standard (5500 Series) & Illuminated (5503, 5508 Series) versions. ENEC, UL, CSA approved. Approvals & ratings can vary with function - see technical data for details. Choice of Single or Twin units. Termination: 6.3 x 0.8 QC, 4.8 x 0.8 QC, Solder Lug. Body/bezel styles.





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